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(54) **METHODS AND APPARATUS FOR THE AGGREGATION OF DATA**

(71) Applicant: **QVINCI SOFTWARE, LLC**

(72) Inventors: **Charles Brenton Nagel**, Austin, TX (US); **Jay Otterbein**, Austin, TX (US)

(73) Assignee: **QVINCI SOFTWARE, LLC**, New Orleans, LA (US)

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CPC ..... **G06Q 40/12** (2013.12); **G06F 17/3033** (2013.01); **G06F 17/30315** (2013.01); **G06Q 10/10** (2013.01); **G06Q 40/00** (2013.01)

(58) **Field of Classification Search**  
None  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

6,141,664	A *	10/2000	Boothby	.....	G06F 17/30348
6,185,576	B1	2/2001	McIntosh		
6,411,938	B1 *	6/2002	Gates	.....	G06Q 20/042
					705/30
6,751,663	B1 *	6/2004	Farrell	.....	H04L 63/08
					709/223
6,785,689	B1 *	8/2004	Daniel	.....	G06F 17/30292
					707/754
7,401,101	B2 *	7/2008	Hild	.....	G06F 17/30563
7,490,108	B2 *	2/2009	Bruun	.....	G06F 17/30563
7,580,884	B2 *	8/2009	Cook	.....	G06Q 40/00
					705/35
2002/0052791	A1 *	5/2002	Defede	.....	G06F 17/30569
					705/16
2002/0138375	A1	9/2002	Kane et al.		
2003/0005426	A1	1/2003	Scholtens et al.		
2003/0163403	A1	8/2003	Chen et al.		
2003/0216979	A1	11/2003	Sribhibhadh et al.		

(Continued)

**OTHER PUBLICATIONS**

Atkins—Need help understanding import options [Posted at GnuCash SVN/CVS and Mail Archive Server]. [retrieved on Feb. 8, 2012]. Retrieved from the Internet: <URL: <http://lists.gnucash.org/pipermailgnucash-user/2009-June/030103.html>> Jun. 4, 2009 entire document.

(Continued)

*Primary Examiner* — Syed Hasan

(74) *Attorney, Agent, or Firm* — Gazdzinski & Associates, PC

(57) **ABSTRACT**

Embodiments include a method of aggregating data from a plurality of QuickBooks (QB) files that may be in physically separate locations, and having at least one account name in common. In one embodiment, the method includes, assigning a different parent account identification (ID) number to each differently named parent account. The method includes creating an entry in a hash table for each parent account ID, the contents of the entry being a collection of rows including a row for each different sub account of the parent account, wherein data for multiple instances of like named parent accounts are aggregated, the key of the entry in the hash table being the parent account ID.

**20 Claims, 9 Drawing Sheets**

